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1. MDA15-T001: Contextual Reasoning for Object Identification

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems, Sensors OBJECTIVE: Develop a technique to incorporate variable contextual information to aid object identification and target designation. DESCRIPTION: When dealing with well-understood threats in a clean environment, a simple formula using a previously defined set of sensor features may be adequate to identify the threat object. However, when enc ...

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2. MDA15-T002: System of Systems Control Interactions

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop and demonstrate innovative design and analysis techniques to characterize the stability and performance of a system of systems (SoS) as a function of sub-system dynamics, network structure and control/decision processes. DESCRIPTION: Seek design approaches that balance multiple sub-system network configurations and sub-system and ...

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3. MDA15-T003: Aerospace Vehicle Signature Modeling Technologies

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Published on SBIR.gov (https://www.sbir.gov)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Information Systems, Sensors OBJECTIVE: Develop computational fluid dynamics (CFD) software tools to extend modeling capabilities, including turbulence, chemically reactive flow, radiative heat transfer and acoustics, for the prediction of aerospace vehicle signature phenomenology beyond the current state of the art. DESCRIPTION: Seek CFD software tools ...

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4. MDA15-T004: Spectral Crosstalk Reduction for Dual-band Long Wave Infrared Detectors

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Materials/Processes, Sensors OBJECTIVE: Seeking solutions to reduce spectral crosstalk of dual-band long wave infrared (LWIR) III-V strained layer superlattice (SLS) based infrared (IR) focal plane arrays (FPA)/detectors. DESCRIPTION: Multi-color FPAs made of III-V SLS semiconductor materials have shown very promising results in recent years. Further impr ...

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5. MDA15-T005: Gold Contaminated Solder Joint Characterization for Quantifying Risks Associated with Gold Embrittlement

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics OBJECTIVE: Develop a risk forecasting tool for quantifying the risks associated with gold-embrittled solder joints in electronic assemblies. Specifically, the model should accurately assess the likelihood of solder joint failure given specific environmental stress conditions (vibrational and thermal shock). DESCRIPTION: Circuit card assemblies (CCAs) are c ...

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6. MDA13-T001: Decision Making under Uncertainty

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Analyze the impact of sensor measurement uncertainties on centralized data fusion and design optimal strategies to mitigate the associated target classification. DESCRIPTION: This topic solicits innovative approaches to characterize target sensor measurement uncertainties and to design effective sensor architectures to aid uncertainty mitigation (e.g. whether sending measurements or ...

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7. MDA13-T002: Micro-Particle Debris Characterization from Hyper-Velocity Impacts

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop innovative, laboratory-based methods to measure and characterize (i.e. size, number, temperature etc.) the small particles less than 1 cm generated in hypervelocity impacts. Those methods should provide benchmark data for physics-based impact debris prediction codes aimed at modeling electro-optical / infra-red (EO/IR) impact flash signatures. The methods may include sensor ...

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8. MDA13-T003: Enhancement of Ballistic Missile Defense System Level Simulation Operations Through Multi-core Processing

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop technology to enhance the Missile Defense Agency"s (MDA) Ballistic Missile Defense System (BMDS) simulation operations through the employment of multi-core processing environments. DESCRIPTION: With the introduction of the Objective Simulation Framework (OSF), the BMDS enterprise-level simulation has the potential to present a more realistic and complex missile defense sc ...

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9. MDA13-T004: Event Integration & Execution Checklist Automation in Support of Improved Situational Awareness and Knowledge Dissemination (AutoCheck)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative distributed software package that generates, tracks and correlates Ballistic Missile Defense System (BMDS) event integration and execution tasks in order to improve situational awareness and user accuracy for event stakeholders. DESCRIPTION: AutoCheck will be of potential benefit to almost every DoD entity, including all the service components. Any activity t ...

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10. MDA13-T005: Command and Control, Modeling and Simulation, Training

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Investigate, design, and develop a command and control training system that incorporates state of the art virtual world, virtual reality, gaming engines, avatar, and artificial intelligence technologies. The end state would be multi-player distributed command and control training simulation that is able to model complex command and control element interactions and that is able to synt ...



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